

Title (en)
Differential pressure measuring device.

Title (de)
Differenzdruckmessgerät.

Title (fr)
Dispositif pour mesurer la pression différentielle.

Publication
EP 0421394 B1 19950405 (DE)

Application
EP 90118994 A 19901004

Priority
DE 3933512 A 19891006

Abstract (en)
[origin: JPH03210446A] PURPOSE: To enable an accurate measurement result even when using a preceeding body connected to a single chamber type differential pressure sensor by allowing an evaluation circuit to contain another compensation device which compensates the effect on sensor differential pressure which is compensated by the first compensation device for a preceeding body temperature and preceeding body parameter. CONSTITUTION: A single chamber type differential pressure sensor 10 is connected to at least one preceeding body 30 including a volume where a fluid is filled, and the volume is closed with one of two vibration plates 12 and 13 at its one side, and it is closed with an elastic preceeding body vibration plate 12 at its other side. An evaluation circuit contains, for respective preceeding bodies 30, another compensation device which compensates the effect on the sensor differential pressure which was compensated by the first compensation device for preceeding body temperature and preceeding body parameter.

IPC 1-7
G11B 23/50; **G11B 19/20**; **G01L 13/06**

IPC 8 full level
G01L 13/06 (2006.01); **G01L 9/00** (2006.01); **G01L 9/12** (2006.01); **G01L 19/00** (2006.01); **G11B 19/20** (2006.01); **G11B 23/50** (2006.01)

CPC (source: EP US)
G01L 9/0072 (2013.01 - EP US); **G01L 9/125** (2013.01 - EP US)

Citation (examination)
• K.W. Bonfig "Technische Druck- und Kraftmessung" Expert Verlag (DE) 1988, Seite 106
• H. Julien "Druckmittler" Oldenbourg Verlag (DE) 1990, Seiten 11, 12

Cited by
US5315884A; EP1167938A3; US6612177B2; WO9627124A1; EP1214633B2

Designated contracting state (EPC)
CH DE FR GB IT LI

DOCDB simple family (publication)
EP 0421394 A2 19910410; **EP 0421394 A3 19910918**; **EP 0421394 B1 19950405**; DE 3933512 A1 19910418; DE 3933512 C2 19930218; DE 59008839 D1 19950511; FI 100361 B 19971114; FI 904734 A0 19900926; JP 2597042 B2 19970402; JP H03210446 A 19910913; US 5111698 A 19920512

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